

## **SYSTEM AND METHOD FOR ELECTRONIC FILE TRANSMISSION**

### **ABSTRACT**

5 A system and a method for electronic file transmission are proposed and applied to a network environment, whereby electronic files are encrypted and decrypted with hardware serial numbers of file reading devices that are authorized terminals for file uploading or downloading transmission. Since each hardware serial number is unique for a particular file reading device, thus for an encrypted file being transmitted to a destined file reading device, only which reading device can decrypt the encrypted file for file retrieval; other reading devices, who may get the transmitted file from the destined reading device, are incapable of proceeding file decryption for this particular file. Moreover, a decrypted or unencrypted file is necessarily encrypted similarly by means of a unique hardware serial number of a file reading device where the file is to be stored. This therefore effectively prevents unauthorized copying and propagation of electronic files or digital information from occurrence.

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